

ABSTRACT

In a turbo generator with a rotor with direct gas cooling, which rotor is provided with a rotor winding arranged around a central rotor body, said rotor winding being on the front sides covered by one each annular cap plate, and in which rotor cold cooling gas for cooling the rotor flows into ring gap segments between the cap plate and the rotor body, whereby the ring gap segments are bordered, when seen in circumferential direction, on the sides in each case by the section of an end spacer plate provided between the cap plate and the rotor winding, whereby this section is projecting into the ring gap, improved cooling is achieved in that separations of the cooling gas stream on flowing into the ring gap segments are avoided by designing the sections of the end spacer plates, whereby these sections adjoin the ring gap, in a manner that is advantageous with respect to the flow.

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